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Full translation.

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AEC Tr 1168

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ZHUR FIZ KHIM Vol XXII, No 4 [illegible] Apr 1948

"Overvoltage of Hydrogen in Powdered Iron Electrodes" 7 pp.

S. A. Rozentsveyg, B. N. Kabanov

Translated
NRL Translation 229

67T21

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910037-5

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Scientific - Chemistry, Physics

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"Intercrystalline Corrosion of Aluminum Alloys"

A.I. Golubev

Proj 1915
T-53-18
4956.1B

SR 5 Dec 49 68T94

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910037-5

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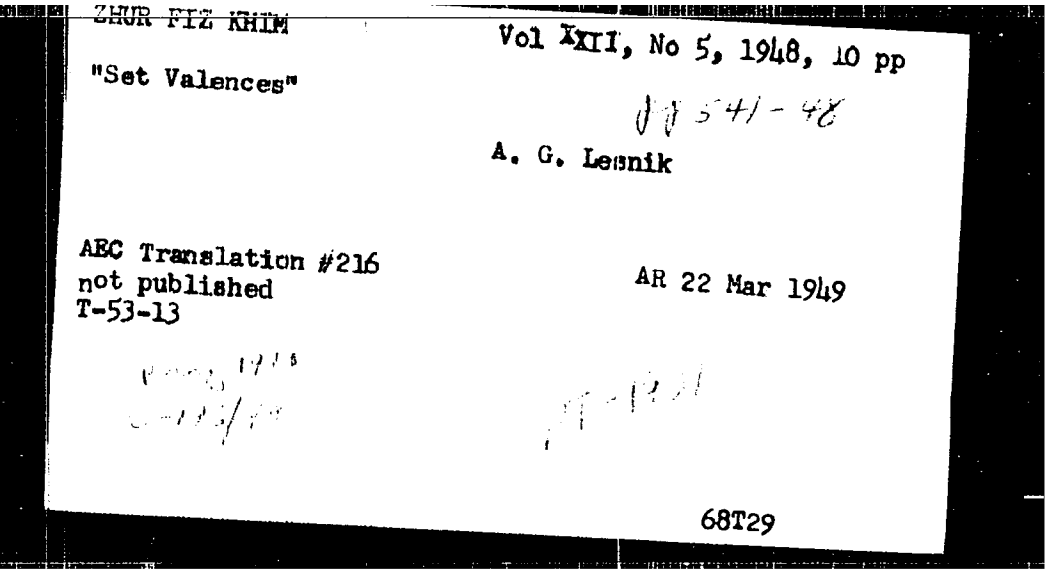

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JJ 541-48

A. G. Lesnik

AEC Translation #216
not published
T-53-13

AR 22 Mar 1949

68T29

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Kinetics of Combustion of Fe, Si and S in Molten Fe, by A. M. Samarin.
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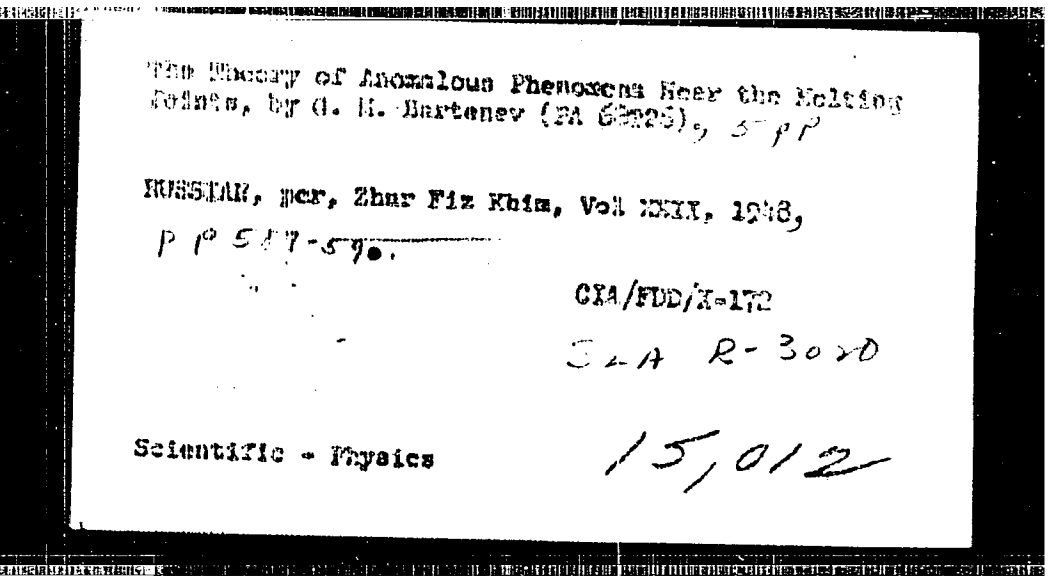

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The Field of Propagation of Cold Flame in Mixtures of Ethyl Ether and Air. Pt. 19 of Investigation of the Conditions of Ignition of Gas Mixtures, by M. B. Neyman, Kh. M. Rubina, R. B. Shmal, 7 pp.

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Theory of Diffusional Kinetics of Heterogeneous Chemical Processes. II. Reactions Taking Place at the Solid/Liquid Interface During Turbulent Flow, by V. Levich

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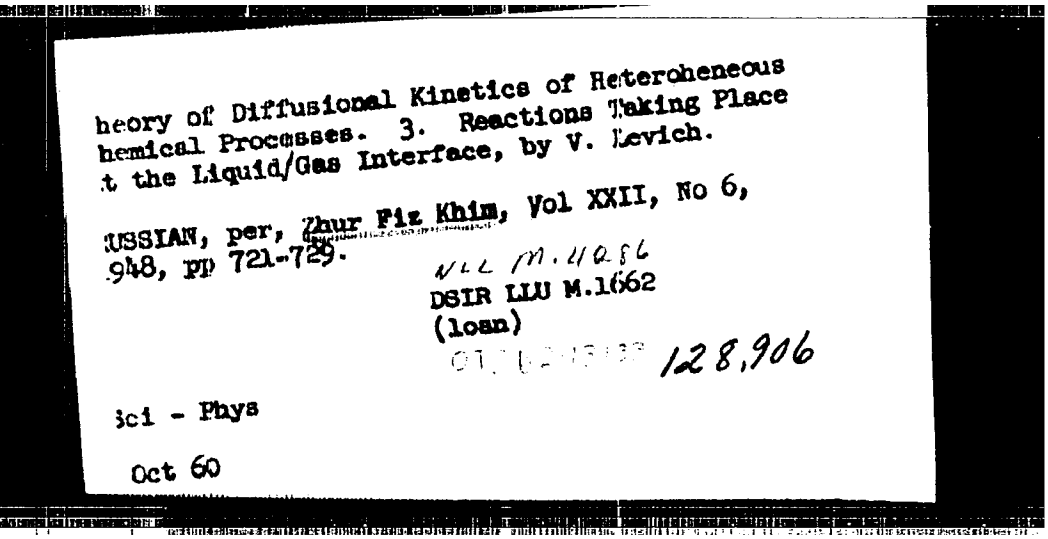

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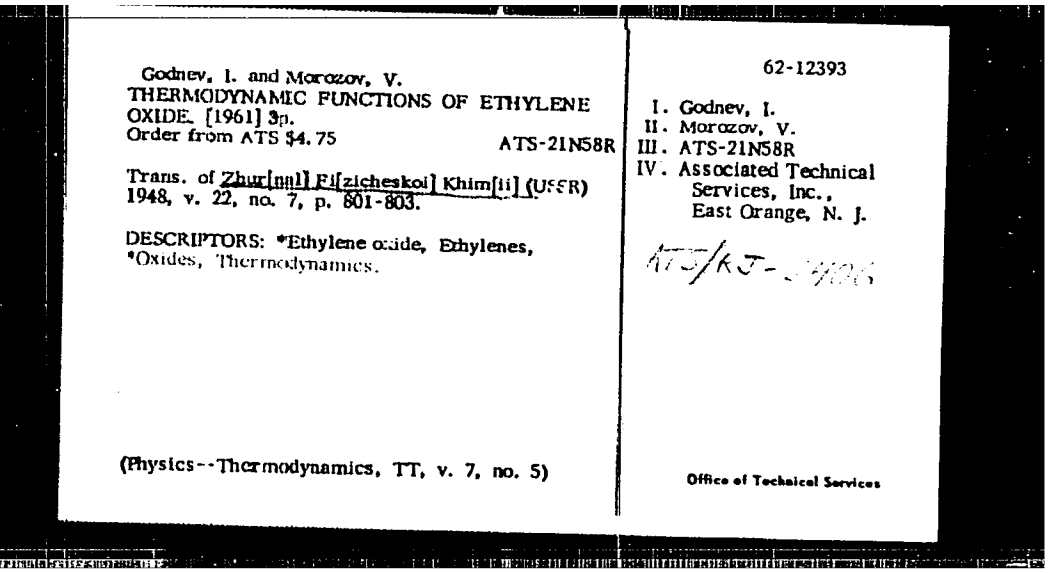

Godnev, I. and Morozov, V.
THERMODYNAMIC FUNCTIONS OF ETHYLENE OXIDE. [1961] 3p.
Order from ATS $4.75 ATS-21N58R

Trans. of Zhur[nal] F[izicheskoi] Khim[ii] (USSR) 1948, v. 22, no. 7, p. 801-803.

DESCRIPTORS: *Ethylene oxide, Ethylenes, *Oxides, Thermodynamics.

(Physics--Thermodynamics, TT, v. 7, no. 5)

62-12393

I. Godnev, I.
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The Influence of Pressure on the Rate of Flame Propagation of Carbon Monoxide, 12 pp. by L. N. Khitrin

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ZHUR FIZ KHIM Vol XXII, No 8, 10 pp, 1948

"Variations in the Formal Kinetics of the High- and Low-Temperature oxidation of Ethane = I. Kinetics of the Reaction of Slow Oxidation of Ethane at Temperatures up to 400 Degrees Centigrade"

N. M. Chirkov
S. G. Entelis

AEC Tr 282

Brookhaven

55/49T15

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Diffusion of Electrolytes and a Method of Calculation of the Diffusion Coefficient of the Ions Constituting a Salt, by Ya. P. Gokhshtein.
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NLL 5828.4F (11707)

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SLA R-2189

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Concerning the Texture of the Crystals α-$Fe_2O_3.H_2O$ Appearing in the Corrosion of Iron, by N.A. Shishakov

Full translation.

RUSSIAN, no per, Zhur Fiz Khim, USSR, Vol XXII, 1948, pp 953-955.

AEC Tr 1459

Scientific - Chemistry, minerals/metals, iron

Dec 52 CTS/DEM

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Electronographic Investigation of the Size of Crystals of Iron and the Thickness of the Oxide Film Formed on Them, by P. D. Dankov, N. A. Shishakov, 7 pp.

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CDB 70/Jul 55

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Adsorption of a Mixture of Vapors on Porous Adsorbents, by G. F. Lesokhina, O. M. Podurovskaya, K. A. Gol'bert, 11 pp.

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SLA R-2168

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An Oscillographic Study of the Cathode Potential During the Growth of a Thread-Like Crystal of Silver, by K. M. Gorbunova, A. I. Zhukova, 4 p.

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ZHUR FIZ KHIMII No 10, 5 pp, Oct 48

"Problem of the Stability of Polymolecular Films: I. Surface Pressure of Oily Multilayers"

Ya. B. Aron,
Ya. I. Frenkel

To be done by ANC
Ref tele - 7 9 (?)
15 Dec 49

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APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910037-5

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Zhur Fiz Khim XXII, 1146-48, 1948

Theory of Viscosity of Liquids

A. G. Stromberg (Ural Section, USSR Acad Sci, Sverdlovsk)

(Wilson Dam 2577)

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910037-5

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Photopolymerization of Vinyl Compounds, III. Photopolymerization of Methyl Acrylate, by Kh. S. Bagdasar'yan.
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NLL 5828.4F (11711)

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The Stability of Polymolecular Films. I. The Surface Pressure of Oil Polylayers, by Ya. B. Aron, Ya. I. Frenkel', 10 pp.

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Aron, Ya. B. and Pavlova, M. V.
CAPILLARY PHENOMENA IN DROPS (Kapillyarnyye Yavleniya v Kaplyakh). Feb 61 [11]p. 7 refs. RTS 1776. Order from LC or SLA mi$2.40, ph$3.30 61-19104

Trans. of Zhurnal Fizicheskoy Khimii (USSR) 1948, v. 22, no. 10, p. 1251-1255.

A study was made of the variation of the wetting angle of water on paraffin wax with drop size, inclination of the wax surface, and deformation of the drop. The results are considered in the light of the physical mechanism of adhesion of drops to a solid surface. The rolling of drops down an inclined surface is also discussed. The influence of electrical potential differences on the contact angle was demonstrated for the case of mercury, but not for solid metallic surfaces. The observed changes in contact angle and the qualitative picture of the deformation of drops on compression, evaporation, and inclination of the surface, indicate the existence of a definite equilibrium value of the contact angle and of its inhibitable reversibility. (Author)

61-19104

1. Drops--Surface properties
I. Aron, Ya. B.
II. Pavlova, M. V.
III. RTS-1776
IV. Department of Scientific and Industrial Research (Gt. Brit.)

Office of Technical Services
(Chemistry--Physical, TI, v. 5, no. 12)

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910037-5

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ZHUR FIZ KHIM Vol XXII, No 11, 13½ pp, 1948

"Experimental Proof of the Theory of Supersaturation: III, Low-Temperature Oxidation Reactions on Nickelous Oxide"

S. Z. Roginskiy
T. F. Tselinskaya

AEC Tr #384
Brookhaven
Sci Info Service
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January 12, 1951 (Copy in files)

56/49T25

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910037-5

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910037-5

Zhur Fiz Khim XXII, 1271-79, (1948)

Entropy of Ions in a Crystal and Solubility of Salts

A. F. Kapustinskiy and K. B. Yatsimirskiy (Inst of Gen and Inorg Chem, Acad Sci Moscow)

(Wilson Dam 2785)

JLA K-213

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910037-5

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Sci - Chemistry

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The Mechanism of Photo-Electrochemical Processes on a $Ag-Ag^{2}$ Electrode, by V. I. Veselovskii.

Full translation.

RUSSIAN, mo per, Zhur Fiz Khim, Vol XXII, No 11, 1948, pp 1362-1311.

AEC Tr 1626

OCT 28 TT

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Jul 53 CTS

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Kinetics of Nonsteady Heterogeneous Processes. [illegible]
Kinetics of the Absorption of Oxygen by Water, by
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Assoc Tech Serv-RJ-644

NLL [illegible]

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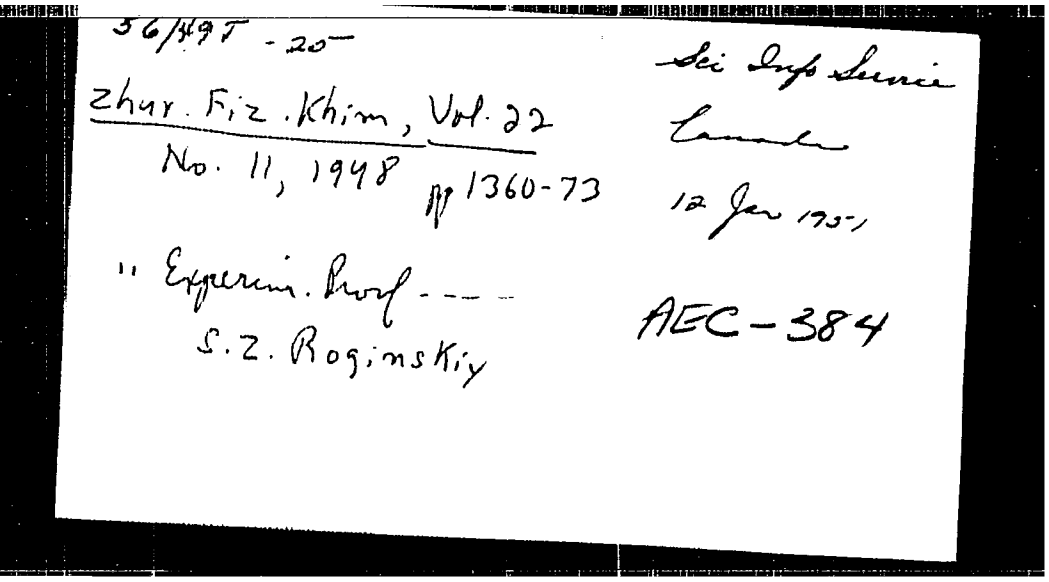

56/49T -20-

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No. 11, 1948 pp 1360-73

Sci Info Service
Canada
12 Jan 1951

" Experim. Prof. ---
S.Z. Roginskiy

AEC-384

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910037-5

APPROVED FOR RELEASE: 09/14/ 2001 CIA-RDP84-00581R000300910037-5

Study of the Kinetics of Electrode Reactions by Means of Alternating Currents. Part 2. Discharge of Mercury Ions. Formation of an Adsorption Layer of Chlorine and Oxygen on a Mercury Electrode. Formation of Mercury Oxide, by K. Rozental', B. Ershler,

RUSSIAN, per, Zhur Fiz Khim, Vol XXII, No 11, 1948, pp 1344-1359.

Assoc Tech Svc
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18; 791

Scientific - Chemistry

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Zhur Fiz Khim, XXII, 1374-80, (1948)

Relation of the Rate of Heterogeneous Catalytic Reaction to the Amount of Catalyst

V. I. Gol'danskiy (Inst of Chemical Physics, Acad Scienc USSR, Moscow)

Wilson Dam, 2792

X-14

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Mechanism of the Photochemical Oxidation of Methane, by A. B. Nalbandyan, 11 pp.

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SLA R - 2,190

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also Wilson Dam Trans 278.7
PA 56#49T22

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MECHANISM OF THE PHOTOCHEMICAL OXIDATION OF METHANE. [K Mekhanizmu Fotokhimicheskogo Okisleniya Metana]. [1963] [15p] 6refs
Order from OTS, SLA, or ETC $1.60 TT-63-20807

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Other translations are available from SLA as R-02190, 14p; from NRCC as TT. 114.

DESCRIPTORS: *Methanes, Oxidation, *Photochemical reactions, *Reaction kinetics, Heat of activation, Absorption, Oxygen, Mercury lamps, Hydrocarbons.

(Chemistry--Physical, TT, v. 11, no. 4)

TT-63-20807

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Phase changes of the II type and critical phenomena,
V. K. Semenchenko

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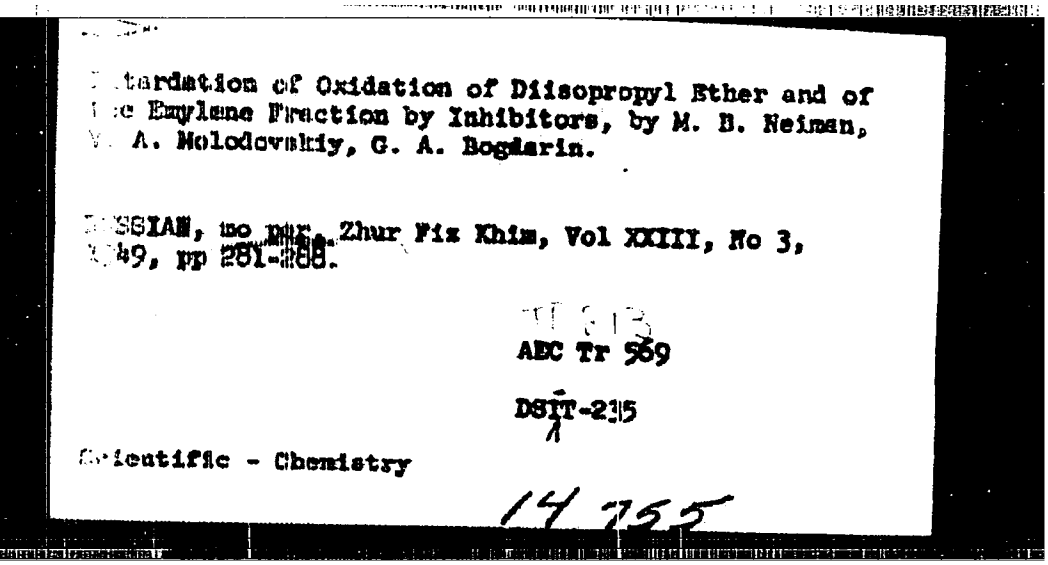

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"Active Ensemble of Platinum in Oxidizing-Reducing and Hydrogenation Processes"

N.I. Kobozev
N.A. Reshetovskaya

Translated
Wilson Dam #2857

57/49T19

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Karpachev, S., Rempel', S., and Iordan, E.
INVESTIGATION OF ANODE OVERVOLTAGE IN FUSED MIXTURES OF CRYOLITE WITH ALUMINA.
[1963] 12p 1ref
Order from OTS or SLA $1.60 63-18997

Trans. of Zhurnal Fizicheskoi Khimii (USSR) 1949, v. 23 [no. 4] p. 422-427.

DESCRIPTORS: *Aluminum compounds, Oxides, *Cryolite, Mixtures, *Fused materials, *Electric potential, Anodes.

The anode overvoltage in fused mixtures of cryolite with alumina on carbon, graphite, and platinum electrodes was investigated. It was shown that the anode potential varies as a function of the current density according to the equation E = a + b lg i. The numerical values of the coefficients b were determined for all of the cases investigated. (Author)
(Chemistry--Physical, TT, v. 10, no. 11)

63-18997

I. Title: Overvoltage
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V. A. Kargin
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Dependence of Activity Coefficient on the Dielectric Constant and the Basicity of the Medium

N. A. Izmailov (Dept of Phys Chem, Gorkiy State University, Kharkov)

(Wilson Dam 2860)

SLA R- 2225

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5 tables, 1600 words.

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Brutcher Trans. Order No. 2373, $2.80.

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SLA R-2232

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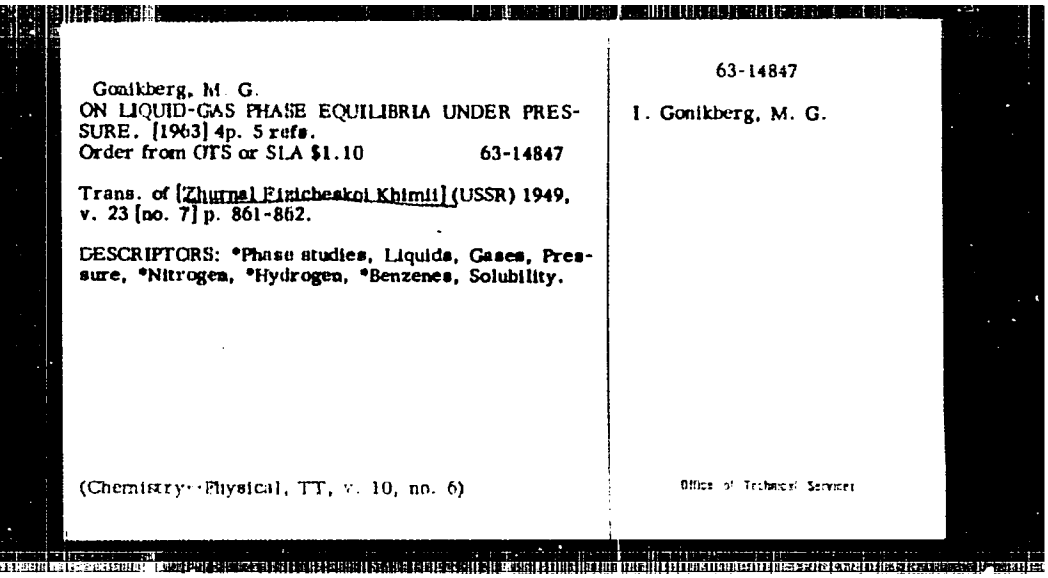

Gonikberg, M. G.
ON LIQUID-GAS PHASE EQUILIBRIA UNDER PRESSURE. [1963] 4p. 5 refs.
Order from OTS or SLA $1.10 63-14847

Trans. of [Zhurnal Fizicheskoi Khimii] (USSR) 1949, v. 23 [no. 7] p. 861-862.

DESCRIPTORS: *Phase studies, Liquids, Gases, Pressure, *Nitrogen, *Hydrogen, *Benzenes, Solubility.

(Chemistry--Physical, TT, v. 10, no. 6)

63-14847

I. Gonikberg, M. G.

Office of Technical Services

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